PATENT COOPERATION TREATY

PCT

REC'D	2	2	MAR	2006
WIPO				PC:

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

			
Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416		
E 1068.0			
International application No.	International filing date (day/month/year)	Priority date (day/month/year)	
PCT/NO2004/000003	12-01-2004	29-12-2003	
International Patent Classification (IPC)	or national classification and IPC		
See Supplemental Box			
		j	
Applicant			
Elkem ASA et al			
This report is the international pr Authority under Article 35 and to	eliminary examination report, established by t ransmitted to the applicant according to Articl	his International Preliminary Examining e 36.	
2. This REPORT consists of a total	of 5 sheets, including this cov	er sheet.	
3. This report is also accompanied by	ov ANNEXES, comprising:		
			
	t and to the International Bureau) a total of	sheets, as follows:	
sheets of the	description, claims and/or drawings which ha	ve been amended and are the basis of this report	
	containing recurrications authorized by this A ve Instructions).	authority (see Rule 70.16 and Section 607 of the	
sheets which	supersede earlier sheets, but which this Author	ority considers contain an amendment that goes	
beyond the d Supplementa	isclosure in the international application as fil	ed, as indicated in item 4 of Box No. I and the	
[]		{	
b (sent to the Internation	onal Bureau only) a total of (indicate type and	• • • • • • • • • • • • • • • • • • • •	
<u> </u>	, containing a sequence listin	g and/or tables related thereto, in electronic	
Administrative Instru	ed in the Supplemental Box Relating to Sequenctions).	ence Listing (see Section 802 of the	
4. This report contains indications r	elating to the following items:		
	of the report	j	
Box No. II Priority	-		
	stablishment of opinion with regard to novelty	, inventive step and industrial applicability	
<u></u>	f unity of invention		
Box No. V Reason	ned statement under Article 35(2) with regard	to novelty, inventive step or industrial	
	bility; citations and explanations supporting s	uch statement	
	defects in the international application		
Box No. VIII Certain	observations on the international application		
Date of submission of the demand	Date of completion	n of this manual	
of the definition of the definition	Date of completion	n of this report	
03-10-2005	14 02 200	_	
	14-03-200		
Name and mailing address of the IPEA/S Patent- och registreringsverket	E Authorized officer		
Box 5055		Ŷ	
S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Moa Grönk		
1 403HIIIC NO. TEO 8 801 14 88	Telephone No. +4	6 8 782 25 00	

Form PCT/IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2004/000003

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Cover sheet

International patent classification (IPC)

C30B 13/00 (2006.01)

CO1B 33/00 (2006.01)

C30B 15/00 (2006.01)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2004/000003

Вох	No. I	Basis of the report
1.	With r	egard to the language, this report is based on:
	\boxtimes	the international application in the language in which it was filed
		a translation of the international application into, which is the language of a translation furnished for the purposes of:
		international search (Rules 12.3(a) and 23.1(b))
		publication of the international application (Rule 12.4(a))
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))
2.	furnis	regard to the elements of the international application, this report is based on (replacement sheets which have been the death to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" are referred to this report):
		the international application as originally filed/furnished
		the description:
		pages as originally filed/furnished
		pages* received by this Authority on received by this Authority on
		pages* received by this Authority on
		the claims: as originally filed/furnished
		pages
		pages last lie Authority on
1		pages* received by this Authority on
	П	
		the drawings: pages as originally filed/furnished
1		pages received by this Authority on
1		pages* received by this Authority on
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
1		
3.		The amendments have resulted in the cancellation of:
1		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
4	. [This report has been established as if (some of) the amendments annexed to this report and listed below had not be made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rt 70.2(c)).
		the description, pages
ł		the claims, Nos.
1		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
Ľ		tem 4 applies, some or all of those sheets may be marked "superseded."

International application No.

PCT/NO2004/000003

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
DOX 110. V	citations and explanations supporting such statement

1.	Statement
----	-----------

dionizoni			
Novelty (N)	Claims	3-9	YES
Novelty (N)			NO
	Claims	1-2	,
			YES
Inventive step (IS)	Claims	7-9	-
myonaryo stop (20)	Claims	1-6	NO
	Claims	1-0	
			YES
Industrial applicability (IA)	Claims	1-9	-
	Claims		NO
	<u> </u>		

2. Citations and explanations (Rule 70.7)

The claimed invention relates to a silicon feedstock and a method for the production of a feedstock. The feedstock should contain between 0.2 and 10 ppm boron and between 0.1 and 10 ppm phosphor distributed in the material.

The object of the invention is to produce solar grade silicon from metallurgical grade silicon.

Reference is made to the following documents:

D1: US 4247528 D2: US 5972107

The most relevant prior art is described in D1.

Document D1 relates to a method for producing silicon of solar grade with a content of phosphor not higher than 20 ppm and a content of boron not higher than 10 ppm. Preferably the boron content should not be higher than 8 ppm and the phosphor content not higher than 5 ppm. See col. 3, line 24-46.

The subject matter claimed in claim 1-2 does not differ from D1.

The subject matter claimed in claims 3-6 does not differ significantly from D1 since the result of such a similar process should be about the same amount of metallic elements.

D2 discloses methods from previously known prior art on how to produce SG silicon. Arc furnaces, acid leaching, slagging and recrystallisation are mentioned (see col.1, line 45-56).

.../...

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2004/000003

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

It is not considered to be obvious for the skilled person to arrive at the combination of process steps set out in claim 9 in view of D1 and D2. Thus, the subject-matter of claim 9 involves an inventive step in view of D2. Claims 7 and 8 are novel and considered to involve an inventive step in view of D1.

According to the arguments stated above, the invention claimed in claims 1-2 is not novel and the invention claimed in claims 2-6 is novel but not considered to involve an inventive step. Claims 7-9 are considered to involve an inventive step. The invention is industrially applicable.